King County Regional AFIS Program

2007
Annual Report
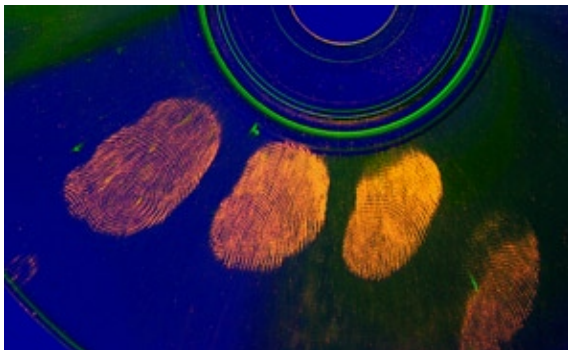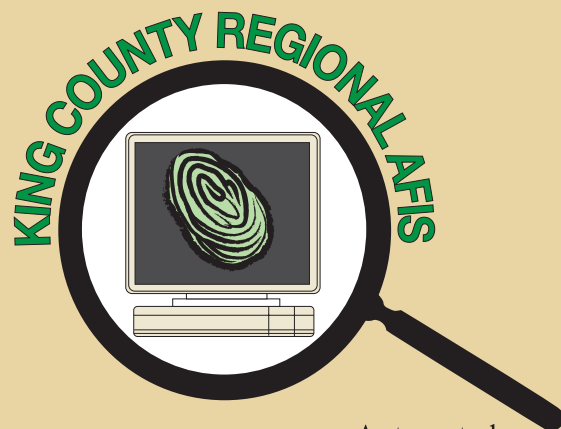
KING COUNTY REGIONAL AFIS

Automated
Fingerprint
Identification
System

PREFACE

The King County Regional Automated Fingerprint Identification System (AFIS) Program is pleased to present its 2007 Annual Report.

The AFIS Annual Report includes the Mission and Goals of the Program and summarizes the historical background, accomplishments, and future plans of its regional fingerprint identification services. This document represents the Program's first annual report, as recommended by the AFIS Advisory Committee.
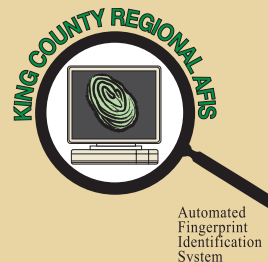
The AFIS Advisory Committee provides oversight and direction to the King County Regional AFIS Program, and was instrumental in planning efforts for the 2007-2012 levy period. The Committee consists of representatives from King County, the City of Seattle, the King County Sheriff's Office, Seattle Police Department, Bellevue Police Department, and Suburban Police Departments. It is a cross-section of city managers, police chiefs, budget analysts, county council staff, and other commissioned and non-commissioned managers.

The success of the King County Regional AFIS Program over the past twenty years lies in the collaborative efforts of the AFIS Advisory Committee, fingerprint professionals, police officers, deputies and management from the aforementioned police agencies. These reports will serve as key elements in the planning of the next AFIS Levy and will demonstrate a record of the success in the regional approach to fingerprint services.

The citizens of King County receive exceptional identification services through the King County Regional AFIS Program. This Annual Report conveys the value of that service and the skill and commitment of the people who deliver it. The Regional AFIS Program 2007 Annual Report is available on-line through the King County Sheriff's Office web site located at: **www.kingcounty.gov/safety/sheriff/enforcement/afis.aspx**.

Sheriff Susan L. Rahr
King County Sheriff's Office

Reviewed and Approved by the King County Regional AFIS Advisory Committee

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Commonly Used Acronyms

Automated Fingerprint Identification System (AFIS)
AFIS Advisory Committee (AAC)
King County Sheriff's Office (KCSO)
Seattle Police Department (SPD)
Washington State Patrol (WSP)
Federal Bureau of Investigation (FBI)
Questionable ID (QID)
New Generation AFIS (NGA)

Acknowledgments

Writing Credits

EXECUTIVE SUMMARY

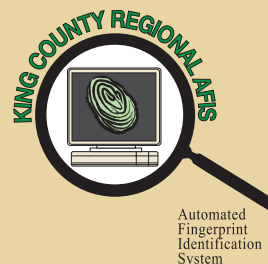## Automated Fingerprint Identification System (AFIS) Review

In 2007, the King County Regional AFIS Program entered the first of its six-year levy, which was approved by voters in September of 2006. It was a year of great progress and successes, but also of many changes. The AFIS Program said goodbye to Marilyn Nault, who served the County for 30 years, before retiring from her role as the Regional AFIS Manager in March of 2007. After an extensive nationwide search, the vacant management position was filled in September by an internal candidate, Carol Gillespie. Ms. Gillespie is a 23-year employee of the Sheriff's Office and has been with the AFIS Program since its inception. She promoted from the position of Identification Operations Manager to lead the Program after Ms. Nault's retirement.

In March of 2007, a project began to replace the Program's old AFIS with a newer system. The Program's New Generation AFIS (NGA) will replace the existing system with a model that is more stable, has increased storage and archive capabilities, and has the new ability to store and match palm prints. In June of 2007, the AFIS Program hired a consultant to help with the procurement of the new system. In the second half of 2007, the initial technical requirements that will be included in the Request for Proposal for the new system were developed. The NGA project is scheduled to continue into 2010.

In May of 2007, the AFIS Program completed its replacement of the 25 Livescan electronic (inkless) fingerprint capture stations around the County that had reached the end of their usable and supportable life. The Program also added new units at the Enumclaw Jail, Snoqualmie Police Department, and University of Washington Police Department and continued to provide training at more than 30 agencies around the County. A second project, to replace the County's Livescan central workflow equipment began, with much of the 2007 project work being devoted to technical system designs, acceptance test plans, and contract negotiations. This project is scheduled to be completed in early 2009.

Every day in 2007, the Regional AFIS Program continued to provide invaluable identification services to the law enforcement agencies of King County. The Latent Units worked thousands of crime scene cases where fingerprint evidence was collected, and helped to identify subjects when no other evidence was available. The Tenprint and Jail Identification Units ensured that if someone was arrested, and lied about their identity to evade a warrant or hide a criminal record, the law enforcement agencies knew about that "liar" before their release from custody. The Program as a whole continued to expand its database of high quality criminal fingerprint records for use in future searches, and ensured that all arrest information was reported to the Washington State Patrol (WSP) and the Federal Bureau of Investigation (FBI) to build complete and accurate criminal records used for pre-trial screenings, sentencing, and background checks.

The King County Regional AFIS Program continues to be one of the finest and most comprehensive fingerprint identification programs in the Country. It is staffed every day by dedicated and talented individuals, each devoted to the common goal of assisting the law, safety, justice, and corrections agencies of King County, and ultimately improving the safety of our communities.

PROGRAM MISSION AND GOALS
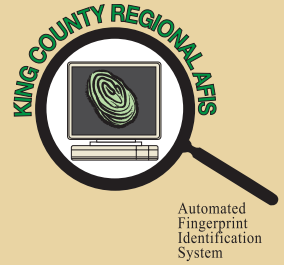
The Mission of the King County Regional AFIS Program

To provide timely, efficient, and quality fingerprint identification services in support of local criminal investigations, through a countywide system linked to state and national fingerprint and criminal history databases.

Goals of the King County Regional AFIS Program

1. Obtain the highest quality fingerprints for the AFIS Database.

2. Capture as many prints as legally permissible in the AFIS Database.

3. Support timely identification of individuals (adult and juvenile).

4. Provide training for King County Sheriff's Office, Seattle Police Department, and suburban police to take tenprints and lift crime scene (latent) prints with the highest possible quality and give expert testimony.

5. Increase awareness of AFIS to the criminal justice community and to the citizens of King County.

6. Improve ease of access for local law enforcement agencies to AFIS.

7. Support criminal investigations by expeditiously processing latent prints (aspire to the fastest possible turnaround time for processing latent prints).

8. Support electronic arrest reporting from the originating agency throughout the system.

9. Support consistent, complete, accurate and non-duplicative criminal history reporting.

10. Upgrade AFIS equipment in a manner that is consistent with enhancing links to the Washington State Patrol and Western Identification Network and that supports emerging regional and national standards.

11. Adhere to state and national standards for technical and operational aspects of fingerprints.

Automated
Fingerprint
Identification
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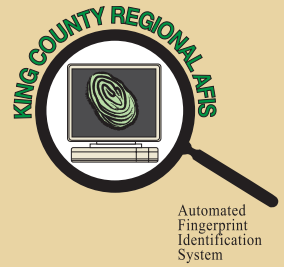
Fingerprint Identification: Persistence (Permanence) & Uniqueness
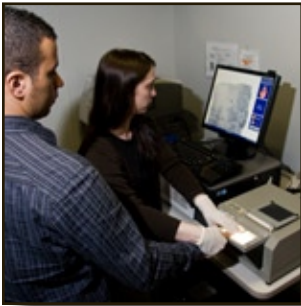
Fingerprints have represented an important area of physical evidence used in criminal investigations for more than 100 years. They offer extreme reliability when used for identification purposes, due to two factors: persistence (permanence) and uniqueness.

Unless altered through scarring, the placement of the ridge details that make up fingerprints remain the same prior to birth and until after death. Even with all of the millions of fingerprints searched and stored using databases throughout the world each year, no two fingerprints have ever been found to be the same, even in the case of identical twins.

Over the last two decades, there have been many new and exciting developments in the field of fingerprints. New chemicals, tools, and methods for developing latent (hidden) fingerprints found at crime scenes have been employed, and new ways to record and search fingerprints of known subjects in custody have been created.

One important tool called the Automated Fingerprint Identification System (AFIS) was implemented twenty years ago in King County through a property tax levy, approved by voters in 1986. This dedicated funding brought on the creation of the King County Regional AFIS Program, which provides fingerprint services for the entire County. Unlike many services provided by individual police agencies, this is a regional service, providing important information-sharing toward greater public safety.

Although the methods continue to evolve, the Program's primary functions remain:

1. CAPTURE fingerprints from subjects
2. STORE fingerprints in databases
3. SEARCH AND IDENTIFY individuals from fingerprints
4. SOLVE CRIMES by identifying prints left at crime scenes
5. ESTABLISH and maintain criminal history and records of arrest for use by agencies and other jurisdictions.

Since the inception of AFIS, more crimes with unidentified subjects have been solved through fingerprint identification. Capturing finger and palm prints from every subject booked into jail, storing fingerprints in an electronic database, and using those prints to match against prints left behind at crime scenes have enabled police detectives to solve many crimes where there were no known subjects.
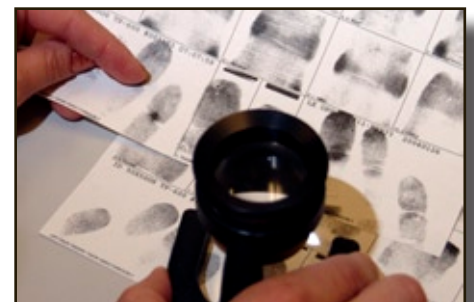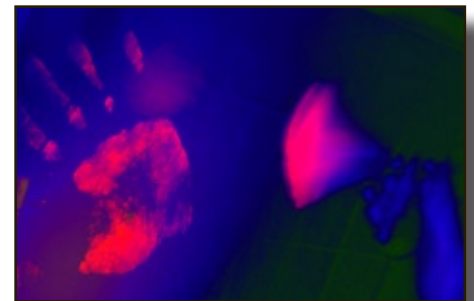
The King County Regional AFIS Program has strived to keep up with advancements in the industry which has resulted in continual increases in both the number of identifications and the speed with which those identifications are made. For this reason, the Program has continued to expand its resources, including technology and staffing.

Automated Fingerprint Identification System

Past Levy Cycles

Levy Cycle	Purpose of Funding	Cost per $1,000 of Assessed Valuation of Taxable Property
1987-1990 **4 years**	Purchase and install the AFIS computer.	$0.02500
1991-1995 **5 years**	Add staff to handle workload increases (144%) and fingerprint all inmates in the King County Jail.	$0.02000
1996-2000 **5 years**	Upgrade the aging AFIS computer and purchase Livescan (electronic capture of fingerprints).	$0.06650
2001-2006 **6 years**	Maintain status quo services.	$0.05784
2007-2012 **6 years**	Among other initiatives, purchase and install a New Generation AFIS, to include full hand/palm print matching.	$0.05680

Funding of AFIS - Dedicated Property Tax

In King County, the Regional AFIS Program is a countywide, levy-funded program that requires voter approval. RCW 84.52.043 allows jurisdictions to levy a property tax; King County can increase a levy with voter approval under RCW 84.55.050.

The AFIS Levy is a regular property tax and is subjected to the growth limitations contained in RCW 84.52.050 which limit the rate of growth in AFIS Levy revenue by one percent plus the prior year's new construction even if assessed values increase at a higher rate.

STRUCTURE OF THE REGIONAL AFIS PROGRAM
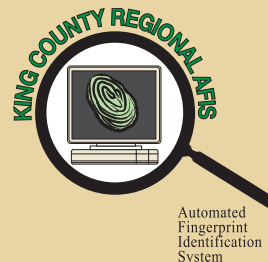
Regional AFIS Program Management
King County Sheriff's Office & Seattle Police Department

Carol Gillespie & Lieutenant Mark Mount

KCSO & SPD Tenprint Operations	KCSO & SPD Jail ID Operations	KCSO & SPD Latent Operations	KCSO & SPD Photo Labs	KCSO & SPD Administrative Operations

Jail ID Operations

Resulting Information Provided to Law Enforcement Agencies

Management & Administrative Operations

Tenprint Operations

Photo Lab

Latent Operations

King County Regional AFIS

Automated Fingerprint Identification System

Local Partner Jurisdictions

The Regional AFIS Program partners with many local law enforcement agencies to identify criminals and to obtain fingerprints for school and child care employees, gun permits, and background checks. To accomplish this, the Program has provided many law enforcement agencies with fingerprint capture devices called Livescan. The Program has also provided the Bellevue Police Department with an AFIS Workstation for remote searches. Fingerprint records that are captured at Livescan stations around the County are transmitted over a secure network to the KCSO and SPD Tenprint Units for identification, verification of arrest data and submission to the WSP and FBI.

Local Partner Jurisdictions (cont.)

At the time of arrest, many individuals attempt to hide their true identities to evade warrants or hide criminal pasts. Through the integration of AFIS and Livescan technology, these subjects are identified and the information is sent to arresting officers in minutes. Crime scene prints can be searched against 550,000 criminal and civil applicant records and identified when no suspects are known. The speed and efficiency of Livescan keeps "liars" in jail, which contributes to safer neighborhoods. With collaborative efforts between the KCSO, SPD, and all the other law enforcement partner agencies, King County has developed an extremely effective network of criminal and applicant electronic fingerprinting stations.

KING COUNTY REGIONAL AFIS

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King County

Bothell
Lake Forest Park PD
Duvall PD
KCSO Pct. 5
Shoreline
KCSO Pct. 2
Kenmore
Kirkland PD
Redmond (2)
UW PD
KCSO Pct. 2
Sammamish
SPD
KCCF (3)
Courthouse (2)
Bellevue PD (2)
YSC (2)
Mercer Island
Snoqualmie PD
Issaquah PD
Renton PD
KCSO Pct.
4 Burien
Tukwila PD
SeaTac
Port of Seattle PD
KCSO Pct. 3
Maple Valley
RJC (2)
Kent PD (2)
Des Moines PD
Federal Way PD
Auburn PD
Enumclaw PD

● Livescan Sites
● AFIS & Livescan Sites

The King County Regional AFIS Program manages 37 active Livescan devices located at 17 different suburban police agencies, six KCSO precincts including contract cities, three County detention facilities, and the SPD. Recently, electronic palm capture was introduced at the 15 highest volume workstations.

"We have had many great experiences with the system from rapid response with QID (questionable) subjects. We have been able to determine the ages of subjects claiming to be youths and/or adults when they were the opposite. When the machine is having rare issues, the call-out staff (service request line) can help with fixing and or having service in a very timely manner. We are very happy to have the AFIS (Livescan) machine here working for us."

-Corrections Officer G. Nelson,
City of Renton Correctional Facility

Tenprint & Jail Identification

The AFIS Program employs Identification Technicians to work at the detention centers located at the Regional Justice Center (Kent), the King County Correctional Facility, and the Youth Services Center (both in Seattle). These technicians fingerprint and take mugshots of inmates at the time of booking for all police agencies bringing subjects into these facilities. They also collect DNA saliva samples of in- and out-of-custody offenders, and submit these samples to the Washington State Crime Lab.

The majority of fingerprints are now captured electronically using Livescan. This new technology enables the Identification Technician in the jail to roll the subject's fingerprints onto a glass platen to be scanned into a computer, without the use of ink.

Fingerprints are electronically transmitted directly into AFIS, where a search is launched against its database of over 550,000 fingerprint records received from different law enforcement agencies within King County. AFIS uses the unique arrangement of ridge characteristics on a fingerprint to compare it to the known prints on file. The computer produces a list of possible matches, usually within a few minutes, and the Tenprint Examiner identifies the subject by visually comparing each fingerprint. The AFIS Program routinely identifies individuals found to be using aliases to evade warrants, then notifies the submitting jail, precinct, or agency of this information.

". . . the Sheriff's Office had more certified Tenprint Examiners than any other agency in the United States."

Charge and demographic information is edited directly on the electronic record by Tenprint Information Specialists and transmitted to the WSP and the FBI. The arrest information is then added to the subject's state and federal criminal history records.

Subjects that are new to AFIS are run against an unsolved latent database. This database consists of approximately 30,000 unidentified latents from previous crimes. By checking each new arrest against this database, examiners routinely identify subjects in many unsolved crimes.

Tenprint Examiners assist any local, state, or federal law enforcement entity, the courts, and identity theft victims to correct records, verify warrants, and resolve problems. They also identify deceased persons by fingerprints from the Medical Examiner's Office and take and process fingerprints of unidentified patients at Harborview Medical Center.

Identification Technicians and Tenprint Examiners are actively pursuing certification, an important goal in the fingerprint profession. At the time of this inquiry, the KCSO had more certified Tenprint Examiners than any other agency in the United States.

Identification Technicians and Tenprint Examiners at SPD and KCSO also assist Latent Print Examiners to process evidence from crime scenes and auto thefts.

"In my line of investigations, AFIS examiners are often called for in an emergent and urgent basis. Under these circumstances, I especially find that AFIS examiners are a great benefit to the team environment that is essential in all murder investigations."

-Detective Thien Do King County Sheriff's Office
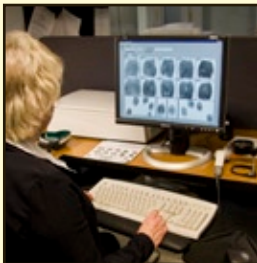
"Recently I printed a person who had two charges. This information was then sent down to KCSO Tenprint to double-check. In less than one hour, Tenprint returned with a Notification showing an additional three warrants including a Felony Warrant from another county for an Assault 2 charge."

-George Fuller Jail ID Technician

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Latent Prints

A print left by chance on an object is called a latent (hidden) print because it is usually not visible without special processing (powder or chemicals) to reveal the image. Latent Print Examiners combine the use of advanced chemical, optical, photographic, and computerized tools to detect and identify latent prints to the person who left them.

Even a small, fragmented or partial latent print found at the scene of a crime may be identified to a specific person. The examiner often receives suspect information and can compare the latent against that individual's fingerprints. When there are no known suspects, AFIS is used to search a single latent fingerprint against thousands of known fingerprints on file. This computer search takes only a few minutes to identify potential subjects. Bellevue Police Department is an additional remote site for latent searches.

Preparing a latent for AFIS entry is a complicated process. The latent is electronically captured and all smudges, dirt, and other debris are removed during a process called "tracing." The examiner digitally scans the latent lift (or a photograph of it) into a computer. The clarity of the image is then enhanced by adjusting properties such as contrast, color, and density, to produce a better image for searching through AFIS. When a match is made, the examiner immediately notifies the detective in charge of the case. On average, 40 percent of the latents searched through AFIS are positively identified, giving King County Regional AFIS one of the highest latent (crime scene) hit rates in the nation. This high hit rate is due in part to the exceptional quality of prints taken by the Identification Technicians in the jail.

Latent Print Examiners assist the Medical Examiner's Office by obtaining and identifying partial ridge detail from deceased persons. They train deputies and officers in proper procedures for the recovery and handling of latent prints. Latent Examiners also assist detectives in processing major crime scenes for local, state, and federal law enforcement agencies.

In December 2006, several Latent Print Examiners were involved in a large case. They processed evidence from 13 marijuana grow operations over two days. Although evidence was processed in December, comparisons were not finished until June 2007. A total of 143,373 comparisons were done on this case and 123 prints identified to 17 suspects.

Multiple examiners spent three days processing a homicide in Covington. Additional evidence was sent to the lab to be processed. There were 16,222 comparisons done in this case. A total of 482 prints of value were developed and 432 prints were individualized. Of these prints, 32 of them were toes and feet. Many of these were left in what appeared to be blood. They were successfully identified to the victims and the suspect.

Photo Lab

Both the King County Sheriff's Office and Seattle Police Department Photo Labs provide imaging services. These labs provide film processing and print production, digital services, studio photography, training, and publicity photography. While these units are not funded by the 2007 AFIS Levy, the levy supplements these units because of the high volume of work performed for AFIS.

Administrative, Project Management, and Customer Support & Training

In order to accomplish the functions of AFIS, there is an Administrative Team whose objectives are to:

- Ensure the Regional AFIS Program is meeting its objectives of completing workload in a timely manner with the utmost quality, accuracy, and service provided to customers.

- Manage the acquisitions, budget, maintenance, and use of AFIS and Livescan technology throughout the County. Ensure that all technology and procedures comply with state and national industry standards.

- Create the foundation for future regional information-sharing projects.

- Facilitate communications between KCSO, SPD, and suburban police departments.

- Establish network connections and integrations between the central AFIS and remote Livescan units. Provide information security oversight.

- Coordinate and provide technical training and help desk support for all AFIS/Livescan customers throughout the County.

AFIS FUNDING & 2007 FINANCIAL PLAN

KING COUNTY REGIONAL AFIS
Automated Fingerprint Identification System
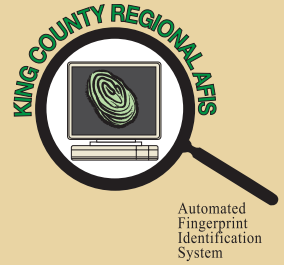
Revenue Summary

The Regional AFIS Program is a countywide, levy-funded program and requires voter approval each levy period. In 2006, King County voters approved a six year levy which will support AFIS from 2007 through 2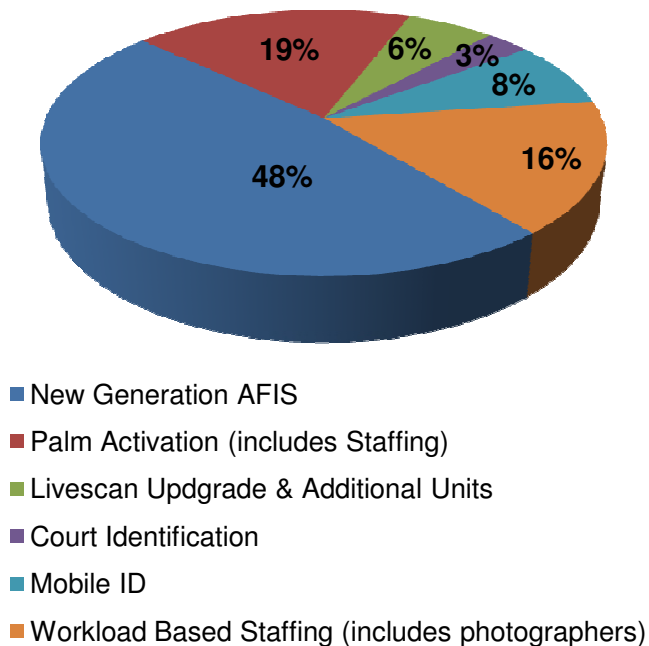012. The AFIS Levy is a regular property tax and is subjected to the growth limitations contained in RCW 84.52.050. In 2007, AFIS collected $16.7 million in property taxes. The average homeowner paid $18.46 in taxes to support AFIS operations.

Expenditure Summary

The AFIS levy plan, approved by the AFIS Advisory Committee, includes funding for existing operations as well as new initiatives. The bulk of expenditures support AFIS staff who provide identification services countywide. The levy also supports AFIS operations in the Seattle Police Department. The 2007-2012 levy will fund the following new initiatives: New Generation AFIS with palm activation and staffing to support palm search capabilities, Livescan upgrade and additional units, a court identification feasibility study and pilot project, mobile identification infrastructure and pilot project, and workload driven staffing increases including photographers.

(Projects begun in 2007 are explained in more detail on pages 24-25.)

Percentage of 2007-2012 Expenditures for Planned Initiatives

48% | 19% | 6% | 3% | 8% | 16%

- New Generation AFIS
- Palm Activation (includes Staffing)
- Livescan Updgrade & Additional Units
- Court Identification
- Mobile ID
- Workload Based Staffing (includes photographers)

AFIS Fund Revenue	Actual Revenue 2007	% Total Revenue 2007
Property (Levy) Taxes	$16,704,688	97.4%
Investment Interest	$427,870	2.5%
Other	$17,846	0.1%
TOTAL REVENUE	**$17,150,404**	**100.0%**

AFIS Fund Expense	Actual Expense 2007	% Total Expense 2007
Salaries and Benefits	$6,828,868	54.8%
City of Seattle	$2,651,636	21.3%
Supplies and Services	$2,245,605	18.0%
Capital Equipment	$726,053	5.8%
TOTAL EXPENDITURES	**$12,452,162**	**100.0%**

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Levy Revenues and Levy Rate (Actual & Forecast)
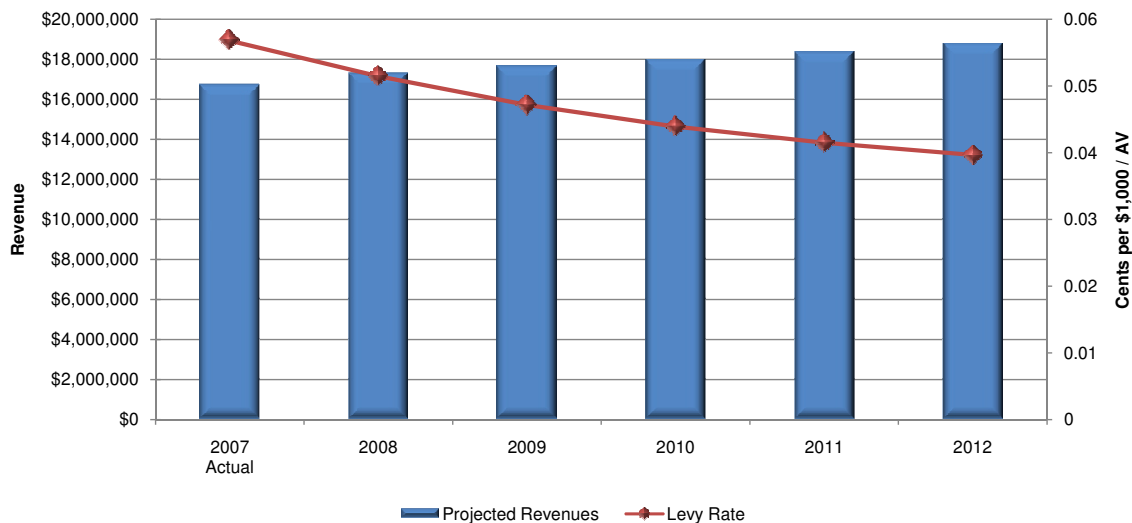
This chart forecasts the levy revenues and rates based on the initial levy rate of $0.0568 per $1,000 of valuation for a six year forecast. The ending levy rate in 2012 is forecasted to be $0.03967.

AFIS revenues are forecasted to increase. However, the effective levy rate will decrease due to property tax limitations established under Initiative 747. State law limits the growth of the AFIS levy to a 1% increase plus the prior year's new construction. As property values increase, the levy rate decreases. A historical example of this trend is shown below.

Average Cost to Taxpayers

	2007
Median Single Family Assessed Value	$325,000
Tax	$18.46

Historical Example of Growth vs. Collections 2001-2005

	Total Assessed Value	Total AFIS Property Tax Collection
2001	$188,420,103,797	$10,833,278
2005	$248,911,782,339	$12,224,191
Growth	32%	13%

From 2001 to 2005 the total assessed value of property in King County increased 32%. However, AFIS revenues increased by only 13%. The effective levy rate decreased from $0.0578 per $1,000 of assessed value to $0.0493 per $1,000. Since the Regional AFIS Program was able to maintain current operations in 2006 with the remaining fund balance, no levy was collected in 2006.

OVERVIEW OF 2007-2012 INITIATIVES

Initiatives for 2007-2012:

- Implement a New Generation AFIS, replacing the existing AFIS infrastructure.

- Upgrade the current Livescan capture stations to capture images at a higher resolution.

- Increase the current inventory of criminal Livescan capture stations to address remaining gaps in service in the region.

- Implement palm searching and storage capabilities, convert current master card inventory to an electronic database, and add staff to search, capture, and identify palm prints left at crime scenes.

- Increase staffing in conjunction with increases in workload, ensure that staffing levels will be re-evaluated annually in the budget cycle based on available funding.

- Initiate a "Court Identification Feasibility Study" to consider the legal, financial, and operational policies and needs of the court system to identify and collect fingerprints from defendants.

- Establish the infrastructure to ensure that King County law enforcement entities that implement wireless Mobile Identification can access and communicate with the Regional AFIS.

- Add photographers to process and preserve finger and palm print evidence recovered from crime scenes.

- Initiate Mobile Identification pilot program for officers to identify subjects on patrol. Research benefits and limitations of this technology.
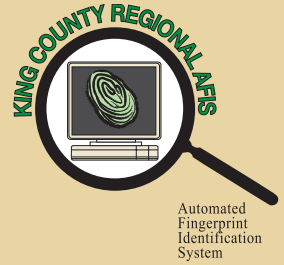
Based On:

- The need to enhance existing programs to meet emerging community needs.

- The need to maintain or improve current systems for the collection and identification of subjects in King County to meet emerging standards.

- Reviewing the performance, finances, and corresponding operations of the Regional AFIS Program.

- Recognizing that the implementation of the initiatives is dependent on future funding.

2007 ACCOMPLISHMENTS & PROJECT HIGHLIGHTS

King County Regional AFIS

Automated Fingerprint Identification System

How far AFIS has come . . .	Prior to AFIS Program (1988)	In 2007
• Crimes solved by identification of fingerprints without a subject (cold hits). *(A total of 20,504 latent fingerprints from unknown subjects have been identified by AFIS since inception in 1988).*	<100	1,307
• Number of inmates fingerprinted at King County jails.	<50%	100%
• Percent of inmates identified prior to release from custody including those giving false names at the time of booking.	1%	99.8%
• Average turnaround time from jail booking to identification.	2-4 weeks	1 hour
• Percent of fingerprints taken and submitted using Livescan capture stations.	0%	98%
• Electronic fingerprint search capabilities via networking. (*On a limited basis, Tenprint and Latent Print Examiners can inquire against millions of fingerprint records at WSP, FBI, California Department of Justice, and the Western Identification Network (WIN). WIN is an organization that provides collective AFIS services to seven states: Alaska, Montana, Idaho, Wyoming, Nevada, Oregon, and Utah).*	None	Access to Millions

"As a Police Detective I have worked closely with the AFIS Program for the past eight years. I have nothing but the highest praise for the Program and the people. Everybody there is great to work with. The Program and the services provided to my agency, as I would assume all other King County law enforcement agencies, is "Top Notch." I have truly enjoyed working with everyone at AFIS and look forward to continuing that professional working relationship."

-Detective Peter T. Erickson
*Criminal Investigations Section*
Mercer Island Police Department

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All Hits (with suspect names & AFIS) by Crime Category

Property Crimes	2007
Auto Theft	257
Vehicle Recovery	83
Motor Vehicle Prowl	48
Arson	2
Residential Burglary	226
Commercial Burglary	33
Other Burglary	71
Theft	52
Larceny	31
Possession of Stolen Property	31
Vandalism	3

Violent Crimes	2007
Assault	36
Hit & Run	3
Homicide	33
Kidnapping	2
Sexual Offense	5
Robbery	76

Other Crimes	2007
Drugs	58
Driving with License Revoked or Suspended	2
Eluding	4
Forgery	62
Fraud	24
Malicious Mischief	7
Miscellaneous	26
Suspicious Circumstance	5
Violations Uniform Firearms Act	21

Percentage of Hits by Crime Category

70%
13%
17%

- Property Crimes
- Violent Crimes
- Other Crimes
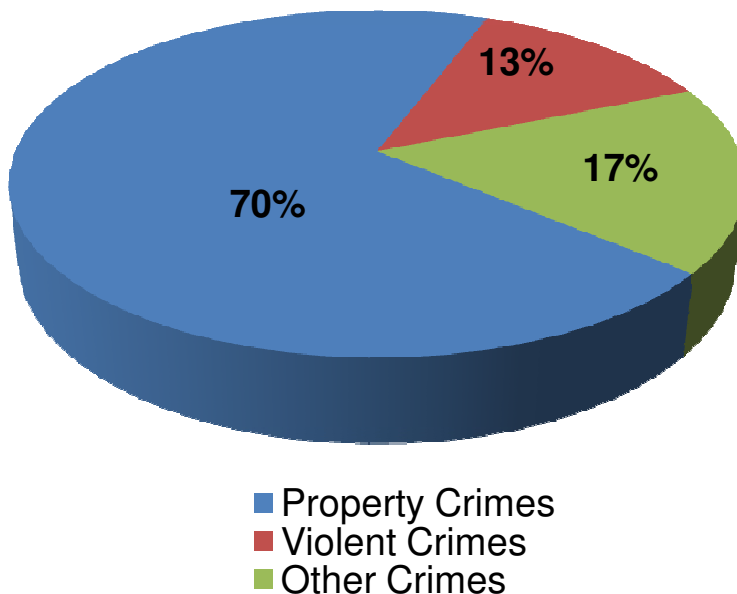
"In my eleven years as a Special Agent I have been assisted by the Regional AFIS Program on numerous occasions. The assistance I have received has been tremendous, to include hundreds of fingerprint comparison requests regarding criminal and administrative cases that have resulted in over 2,000 months of federal prison sentences as well as the identification and removal of hundreds of convicted criminal foreign nationals. Not to mention uncovering fraud and other violations of law. Many of our Special Agents with Immigration and Customs Enforcement (ICE) and many other federal agencies have and continue to utilize AFIS as an essential investigative tool. My experience has been that no request has ever been too small or too big when put in the professional hands of AFIS. I have thoroughly enjoyed working with everyone at AFIS and anticipate continuing that professional working relationship."

-Thomas Skalski
Senior Special Agent
U.S. Immigration and Customs Enforcement (ICE)

New Generation AFIS (NGA) with Palm Activation

The NGA project enables the replacement of the aging AFIS and its peripheral equipment, originally installed in 1988 and upgraded for Y2K compliance in 1999. This replacement, which requires a full conversion of the existing database, will consist of all hardware, software and maintenance. It will support the standard tenprint, palm, and latent databases, as well as the matching system and image archive system.

The features of the new AFIS will include:

- Conversion of entire database, including binary to grayscale

- Increased storage and throughput

- Palm print storage and matching

- Full finger and flat impression storage and matching

- Storage of multiple fingerprints per person to increase matching capabilities

- Higher resolution (1000 ppi) storage and matching

- Modular design

"AFIS is a great system, and we need to support it."

-Deputy R. Harrington, Skykomish Police Department

The project will be divided into three major phases:

Project Phase 1 - Pre-Request for Proposal (RFP) work leading to posting/release.

Project Phase 2 - Vendor selection, technical design, and contract negotiation.

Project Phase 3 - System implementation, training, and acceptance testing.

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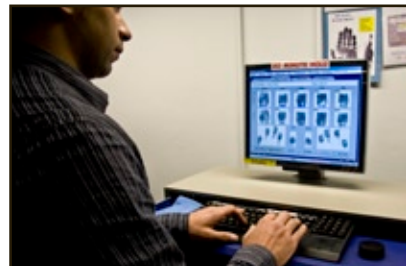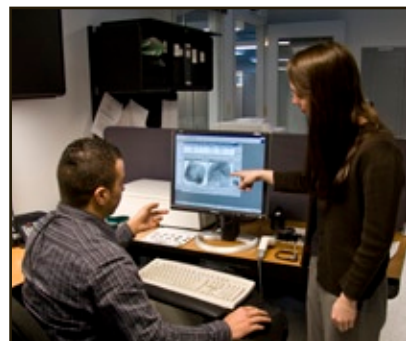## Livescan Central Site Replacement & Additional Units

This project supports the replacement of the outdated Livescan central site infrastructure, which manages the records received from Livescan capture stations from around the County.

The fingerprint records that are captured at Livescans arrive at KCSO and SPD Tenprint Units for identification, editing, and submission to the WSP and FBI. The Livescan central site equipment facilitates this process and integrates with the County's Mainframe.

The central site equipment is no longer supported by the vendor. It runs on an old Windows NT platform that cannot accommodate basic updates and patches. This project replaces the customized hardware and software and allows continued maintenance, while providing essentially the same functionality.

The AFIS Advisory Committee (AAC) also surveyed its customers and reviewed previous requests, and found that there were still areas of the County that would benefit from the use of Livescan technology. In addition to replacing the "End-of-Life" units, the AAC decided to purchase additional units to resolve remaining gaps in service within the County.

Staffing

Although the 2007-2012 levy supports some additional positions to address project needs and workload increases, the AFIS Program maintained its existing staffing levels in 2007. Two photographer positions were budgeted to be added in 2007; however, these positions were not filled until 2008 in order to fund digital photography equipment.

" AFIS has been a big help to Pacific Police Department over the past couple of years. When we arrest someone who we believe is lying about their name, or someone refuses to give their name, Pacific Police Department can take them to Auburn to be fingerprinted on Livescan— and we are able to correctly identify the individual. We appreciate having a resource in order to establish these identities in question."

*-Lt. Massey,
Pacific Police Department*

"I cannot think of an agency or anyone involved in any aspect of law enforcement (police, prosecution, probation/parole, jail staff etc.) that would want to lose this incredible tool. The setback to the criminal justice system would be unimaginable!"

*-Chief Kevin Klason,
Covington Police Department*

"Having a great technological piece of equipment like our Livescan machine allows us to continue providing great customer service."

*-Major J. Wills,
North Precinct Commander*
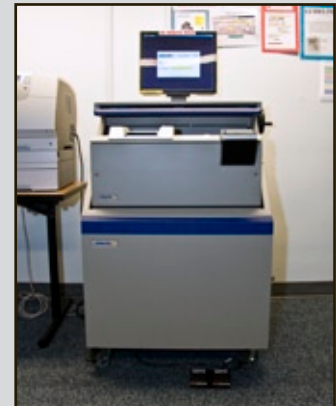
Community Outreach

AFIS is involved in several programs within the community. AFIS employees spend their personal time sharing their skills and knowledge with the citizens of King County.

Science on Patrol

Science on Patrol is one of the ways in which AFIS employees reach out to the community. This program is designed to show kids at the elementary and middle school levels how much fun science can be and to learn about detective work. AFIS participates in different demonstrations at schools and community events all over King County. At each event, AFIS employees run various fingerprinting activities where kids can take their own fingerprints and then learn about them. The program began in King County in 2006 and is funded by grant money.

Science on Patrol recently participated in the Youth and Law Forum in Seattle. Kids of all ages attended this event to have a hands-on learning experience about various aspects of the law. Several AFIS employees showed the kids different techniques for processing fingerprints.

Citizens Academy

Various Police Departments hold Citizens Academies. At these academies, citizens learn how law enforcement serves the community, and how citizens can get more involved in their neighborhood. The Regional AFIS Program is frequently invited to present to these groups, and enjoys the opportunity to share program information directly with the citizens.

"In 2005, regional auto theft investigators teamed with the King County Prosecutor and other stakeholders to develop a cooperative strategy towards combating the area's huge auto theft problem. One of our key stakeholders was King County's AFIS Program; at our request, they started providing King County Law Enforcement agencies with comprehensive reports of AFIS hits, which assisted in identifying chronic offenders for special enforcement. AFIS personnel also made themselves available to area agencies for latent processing, by developing all possible evidence in auto theft cases, and making time to train first responders in the best practices for evidence collection and preservation. As a result, the 2006 and 2007 auto theft statistics show the Seattle-Tacoma area reducing auto theft for the first time in years. King County AFIS has truly been a key partner in this ongoing success story."

-Detective Robert Onishi
Renton Police Department

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Success Stories

One of Canada's Top 10 Most Wanted Discovered

An officer made contact with a construction worker who had been sleeping in his car at a construction site. The subject's identification was questionable, so the officer fingerprinted him using Livescan. His prints were searched in AFIS, and he was found to be on Canada's Top Ten Most Wanted List. This individual illegally imported steroids and was involved in Mob activity, which included illegal gambling. He killed and buried three Mob members, then fled. The FBI became involved, and the subject provided the FBI with names of other persons of interest.


Arson Case is Solved

King County Latent Print Examiners were requested to search latent prints from a Burien arson case on AFIS. Five latents were found and searched, with no results. A month later, an officer arrested a juvenile on Possession of Stolen Property. The officer took fingerprints of the individual using Livescan, and the prints were registered into AFIS, since they were new to the database. When fingerprints are newly registered, they are also searched against the unsolved latent database. When this was done, a hit against one of those five latents was made, generating a suspect where none had existed before. The detective on the arson case was notified and arrested the individual. After questioning, the 13-year old suspect admitted to committing the crime.

A Case of Mistaken Identity

US Customs contacted police about an inbound flight passenger with a probation violation warrant out of California. An officer met the flight as the passenger was brought off the plane in handcuffs. The passenger believed he was being confused with someone else after his house had been broken into and his license and other ID had been taken. The individual's fingerprints were taken and searched against various AFIS databases. With the help of an AFIS Examiner, officers concluded that the passenger was a victim of identity theft—and the individual was released from custody.
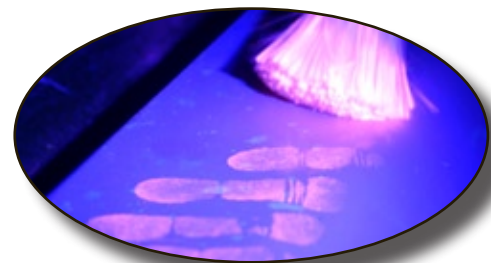
AFIS Helps Stop a Chain of Nationwide Thefts

Examiners collected fingerprints from a crime scene where a stolen gasoline truck had been recovered. This was only one in a series of thefts, in which tanker trucks were being stolen for the sale of gasoline. A fingerprint match was made to a previously unknown suspect. Detectives put the suspect under surveillance and arrested him a short time later while the suspect was driving another stolen truck. According to the detective, "This AFIS hit has led to the breaking up of a (national) theft ring that had been in operation for some time."

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Success Stories (cont.)

Body Found in Wooded Area

On May 25, 2007, a passerby discovered a body in a wooded area in Seattle. It had been in this location approximately three weeks and was in a decomposed and mummified condition with no identification on or near the individual. A Tenprint Examiner and a Latent Print Examiner worked on the case and were able to make an identification. Because of their skills and AFIS, the individual's next of kin in Ogden, Utah, was able to be notified.

Murder Victim Identified

In south King County, a homicide victim's body was found on a Thursday. No leads could be found until the victim was first identified. The next day the Medical Examiner's Office sent the victim's fingerprints to the AFIS Section. AFIS had a hit within 15 minutes, and in only a few hours, detectives had viable suspects, two of whom were booked that very weekend.

Burglar Identified Through Fingerprints

A burglar was making his way through south King County. His method was to write down and carry an address close to the address of his next victim's house that he was approaching, so if questioned, he could state that he was responding to an ad in the Little Nickel but had the wrong address. When he was at his last victim's home, he left his car behind when an officer drove up. Inside the car, his book of addresses was found from which latent prints were lifted. He also left his driver's license in the car! Milton Police worked through Tacoma Police Department and King County Sheriff's Office Tenprint Unit, who jointly identified the burglar through fingerprints located in King County's AFIS.

You Can't Hide

Recently a Jail ID Technician printed an individual as an "identity in question." When his fingerprints were searched, it was discovered that he had lied about his identity. He had three felony and two misdemeanor warrants, as well as the direct charge for which he was arrested. He seemed surprised when the Commanding Officer called him out to book him by his "real" name.

Stolen Passport

Stopped by a Seattle Police Officer, an individual produced a passport for identification. The individual believed that because the last name on the passport matched his own, he would pass the "test" with flying colors. Perhaps it was the picture that alerted the officer to bring him in for fingerprinting at the Justice Center. Of course, AFIS revealed his true identity. He was booked into King County Corrections Facility for possession of stolen property---the passport!

FUTURE GOALS
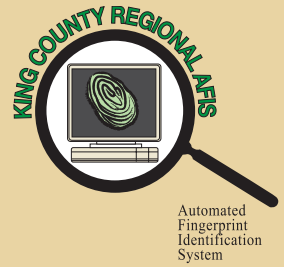
2008 Goals

Projects being worked on for 2008:

**Livescan Central Site Replacement** - installation, testing, and training on the new system.

New Generation AFIS - release of RFP, system benchmarking, and contract negotiations. Project not scheduled for installation until 2009.

Additional Livescan Units - purchase, installation, training, and testing of units at new sites to address remaining gaps in services as needed.

The King County Regional AFIS Program has made great technological advancements over recent years, and with each step comes closer to its ultimate goal: providing the fastest and most accurate identification services possible for the safety of its officers and its communities.

Technology Projects	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Livescan (LS) Central Site Replacement with Additional Units	→→→									
New Generation AFIS with Palm Activation	→→→→									
LS High Definition Upgrade			◆							
Mobile ID Central Site				→→						
Court Printing Study			→→							
Mobile ID Field Units			◆							
Court Printing Pilot (Equip.)				→→						
AFIS/LS Refreshment								◆		

APPENDIX A
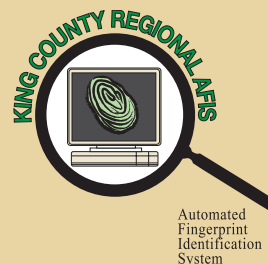
AFIS Advisory Committee Membership

Chair: **Major Mike Pentony, Bellevue Police Department**

**Vice-Chair:**   **Lieutenant Mark Mount, Seattle Police Department**

Members

- Chief Rick Kieffer, Normandy Park Police Department
- Commander Chris Norman, Federal Way Police Department
- Penny Bartley, Auxiliary Services Manager, Renton Police Department
- David Cline, City Administrator, City of Lake Forest Park
- Don Berard, Budget Supervisor, Seattle Police Department
- Greg Doss, Strategic Advisor, City of Seattle, Department of Finance
- Assistant Chief Jim Pryor, Seattle Police Department, Criminal Investigations Bureau
- Clif Curry, Senior Legislative Analyst, King County Council
- Kate Davis, Budget Analyst, King County Office of Management & Budget
- Chief Tony Burtt, King County Sheriff's Office, Technical Services Division
- Carol Gillespie, Regional AFIS Manager, King County Sheriff's Office

Past Members

- Marilyn Nault, Retired Regional AFIS Manager, King County Sheriff's Office
- Cathy Schrock, Support Services Manager, Federal Way Police Department
- Denise Turner, Retired Chief, King County Sheriff's Office, Technical Services Division

APPENDIX B
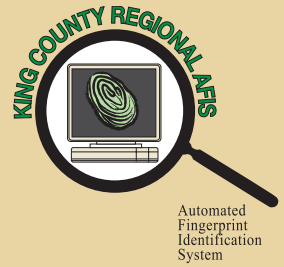
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Contact Information

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E-mail: afis@kingcounty.gov

Or visit us on the Web!
www.kingcounty.gov/safety/sheriff/enforcement/afis.aspx

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Michele Triplett, Latent/Photo Operations Manager 206.205.7618

Diana Watkins, Identification Operations Manager...206.205.7977

KCSO Tenprint Unit 206.296.7516

SPD Tenprint Unit...206.684.5514

KCSO Latent Print Unit 206.296.7446

SPD Latent Print Unit 206.648.5510

Jail ID Unit..206.296.1319

KCSO Photo Lab...206.296.3835

SPD Photo Lab 206.684.5756

Customer Service & Support..209.296.1303